CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.05/MBH/CEMENT/2013-14

Date: 11.03.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. M.B. Hombal,** Contractor, Bangalore.
NAME OF THE WORK	:	Providing RCC Drain and covering slabs at Agarhara Layout in Ward No.05, Byatarayanapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/BTP/(WO)/284/2013-14Dated: 08.03.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	480 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.00 %	-

Note:

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AE-01
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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Job No.: CTCE/BBMP/W.No.05/MBH/SAND/2013-14 : 11.03.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Mr. M.B. Hombal,** Contractor, Bangalore.

Name of Work : Providing RCC Drain and covering slabs at Agarhara Layout in Ward No.05, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : AEE/BTP/(WO)/284/2013-14Dated: 08.03.2014

Date of Testing : 11.03.2014

Material : Sand Total Wt. of Aggregates in gms 2000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	96	4.80	4.80	95.2	90-100
2.36	205	10.25	15.05	85.0	75-100
1.18	488	24.40	39.45	60.6	55-90
600 Micron	425	21.25	60.70	39.3	35-59
300 Micron	493	24.65	85.35	14.7	8-30
150 Micron	218	10.90	96.25	3.8	0-10

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AE-01
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Job No.: CTCE/BBMP/W.No.05/MBH/AGG/2013-14 : 11.03.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Mr. M.B. Hombal,** Contractor, Bangalore.

Name of Work : Providing RCC Drain and covering slabs at Agarhara Layout in Ward No.05, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : AEE/BTP/(WO)/284/2013-14Dated: 08.03.2014

Date of Testing : 11.03.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 25000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	995	3.98	3.98	96.02	95-100
20	15840	63.36	67.34	32.66	30-70
10	5098	20.39	87.73	12.27	10-35
4.75	2545	10.18	97.91	2.09	0-5

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.05/MBH/STEEL/2013-14 11.03.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. M.B. Hombal,** Contractor, Bangalore.
Name of the Work	:	Providing RCC Drain and covering slabs at Agarhara Layout in Ward No.05, Byatarayanapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/BTP/(WO)/284/2013-14Dated: 08.03.2014
Date of Test	:	11.03.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	514	545	12.90	O.K	O.K

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Job No.: CTCE/BBMP/W.No.05/MBH/CUBE/2013-14 19.04.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. M.B. Hombal,** Contractor, Bangalore.
Name of the work	: Providing RCC Drain and covering slabs at Agarhara Layout in Ward No.05, Byatarayanapura Sub Division, BBMP, Bangalore.
Reference	: AEE/BTP/(WO)/284/2013-14Dated: 08.03.2014
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.03.2014	19.04.2014	8.145	478.3	21.26
2	22.03.2014	19.04.2014	8.256	492.5	21.89
3	22.03.2014	19.04.2014	8.388	512.4	22.77

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